

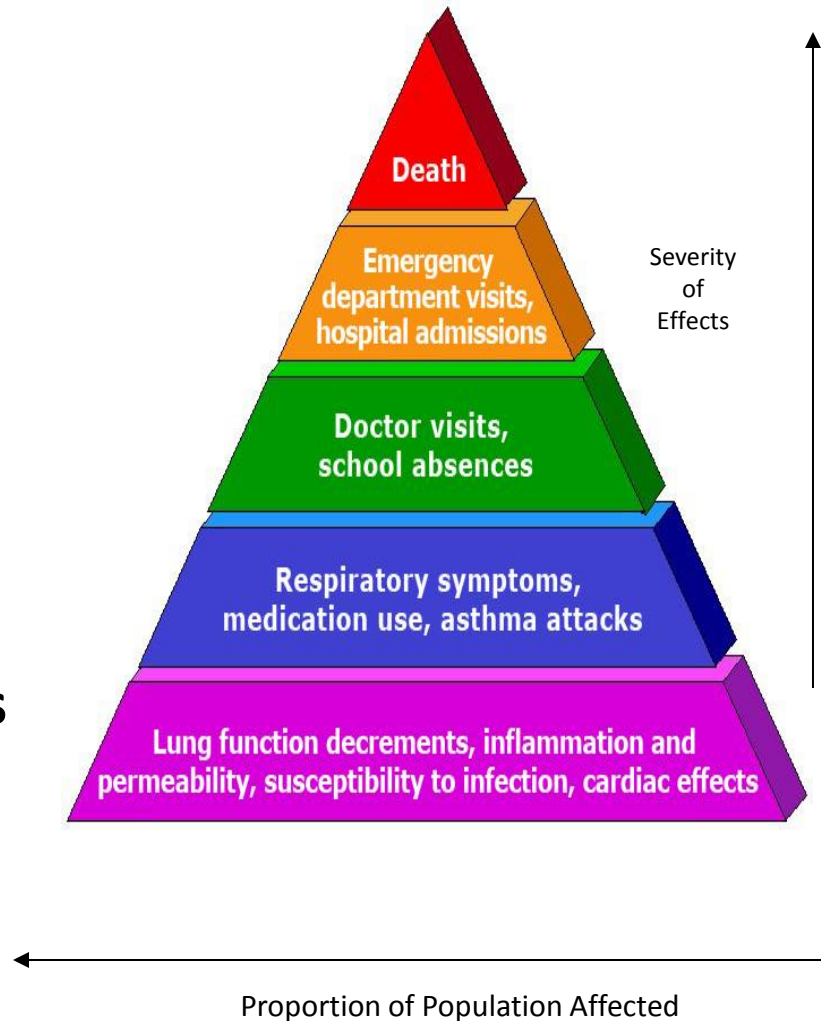
# 2015 Ozone National Ambient Air Quality Standard

Air Advisory Council

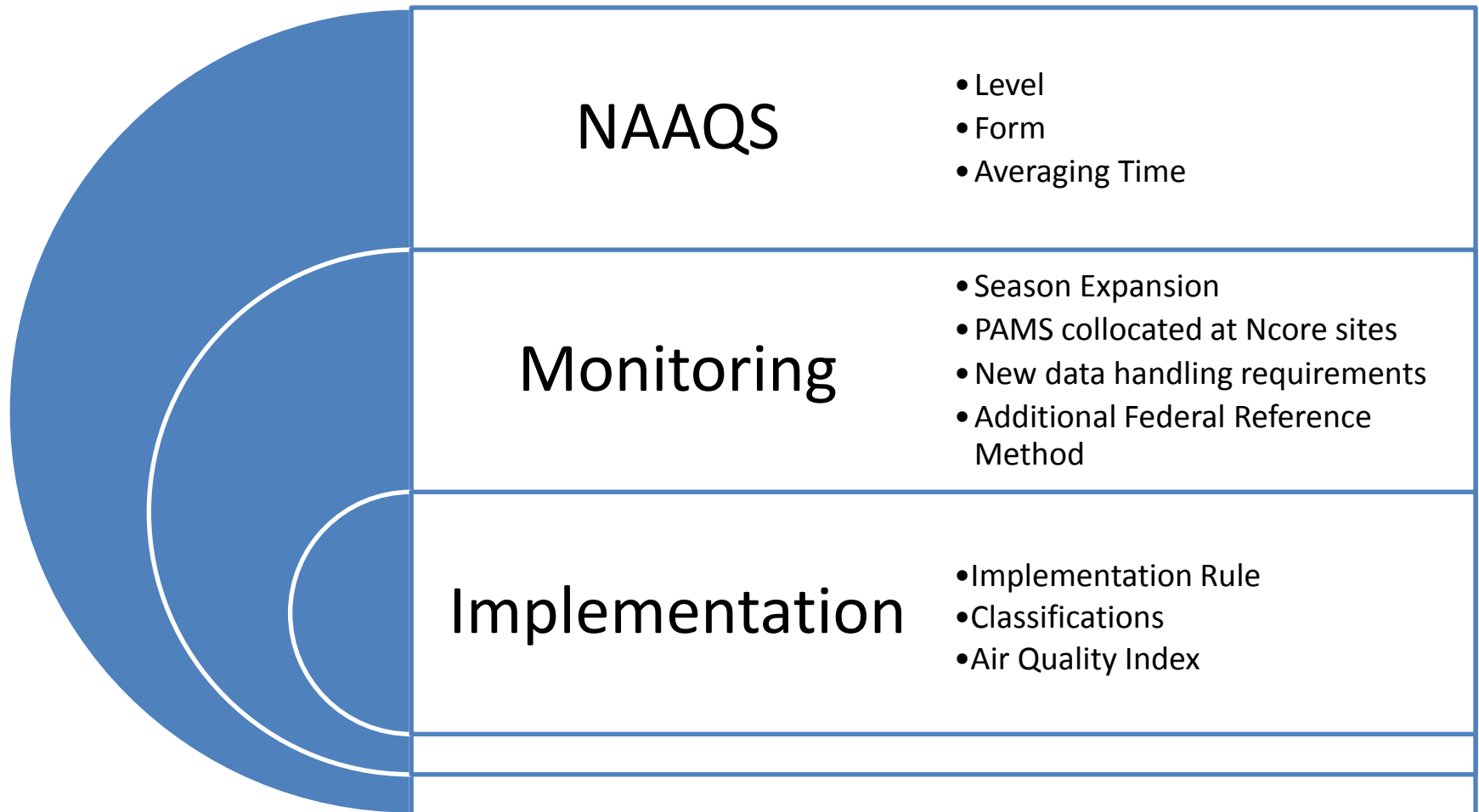
September 12, 2016

# Ozone Health Effects

- **Susceptible & vulnerable groups include:**
  - People with lung disease such as asthma
  - Children
  - Older adults
  - People who are more likely to be exposed, such as outdoor workers



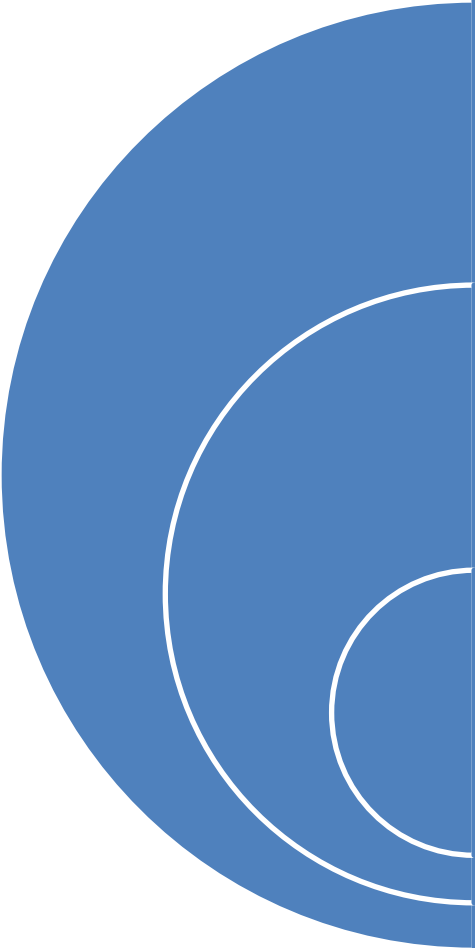
# 2015 Ozone NAAQS Rule



# Schedule

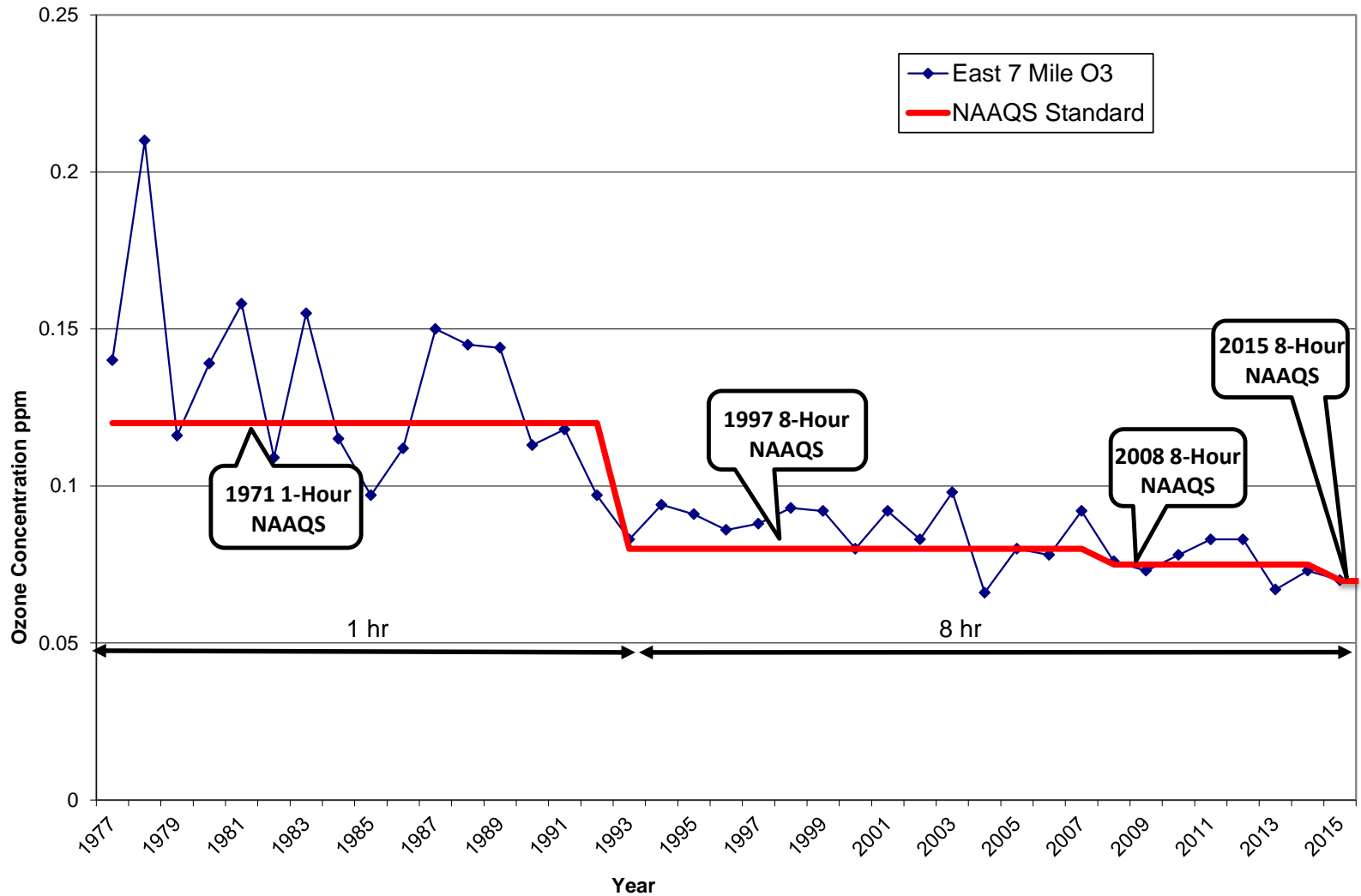
- State recommendations – 2016
- Designations – 2017
- Infrastructure certification – 2018
- Emissions inventory – 2019
- RACT for NO<sub>x</sub> and VOC – 2019
- Attainment demonstration – 2020
- Attainment deadline – 2020/2023

# Historical Ozone NAAQS

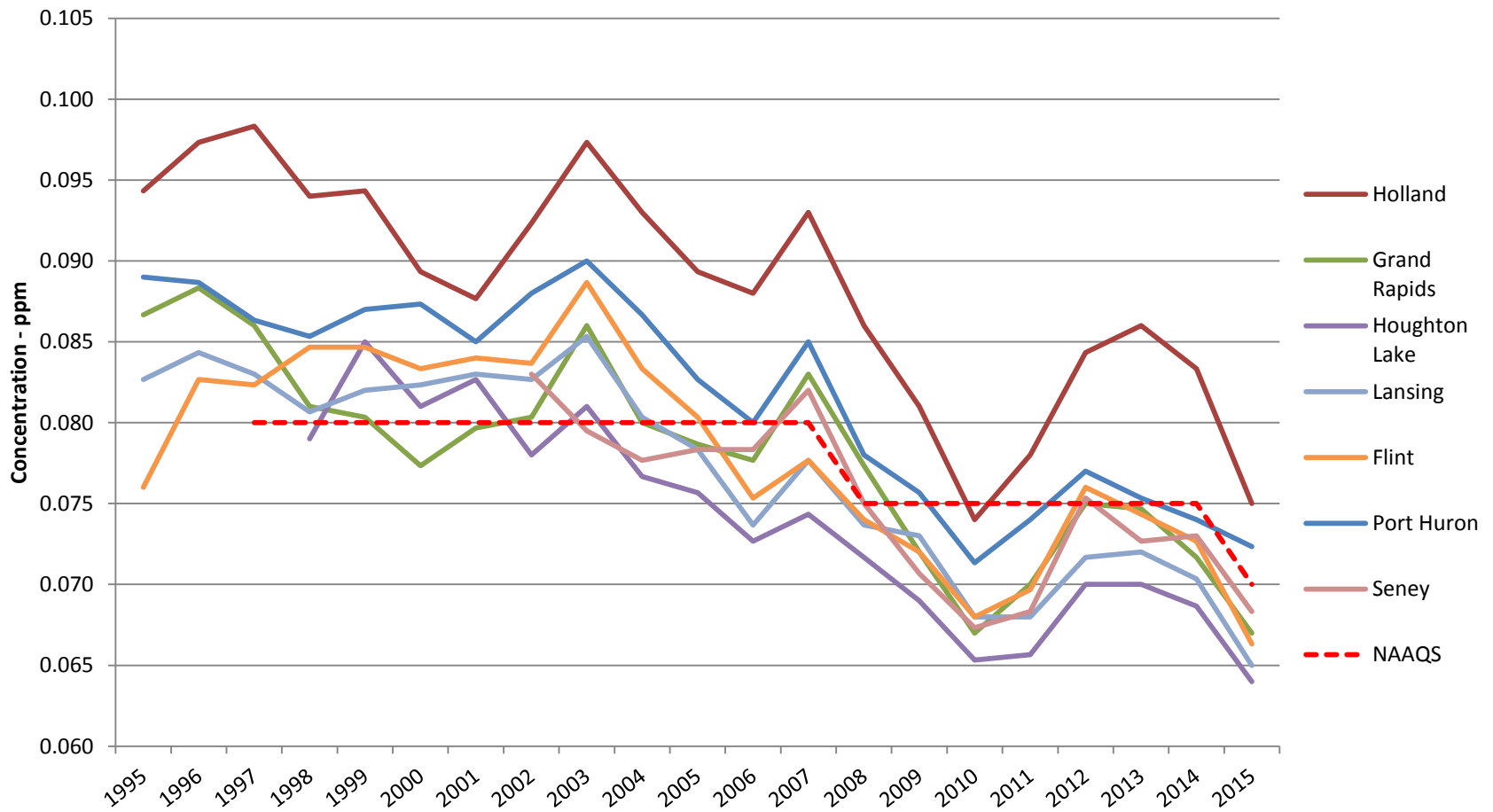


1990	<ul style="list-style-type: none"><li>• 1 Hour - .12 ppm</li><li>• 37 Counties NAA</li></ul>
1997	<ul style="list-style-type: none"><li>• 8 Hour - .08 ppm</li><li>• 25 Counties NAA</li></ul>
2008	<ul style="list-style-type: none"><li>• 8 Hour - .075 ppm</li><li>• 0 Counties NAA</li></ul>

# Ozone Trend



# Ozone Trend



# Designation

Attainment, Nonattainment,  
Unclassified



Design Values



Boundaries of Nonattainment Areas



# Maximum Allowable for 2016

(4<sup>th</sup> high not to exceed in ppb)

Holland

63

Coloma

67

Muskegon

63

Grand Rapids

79

Port Huron

66

New Haven

69

Allen Park

84

Lansing

83

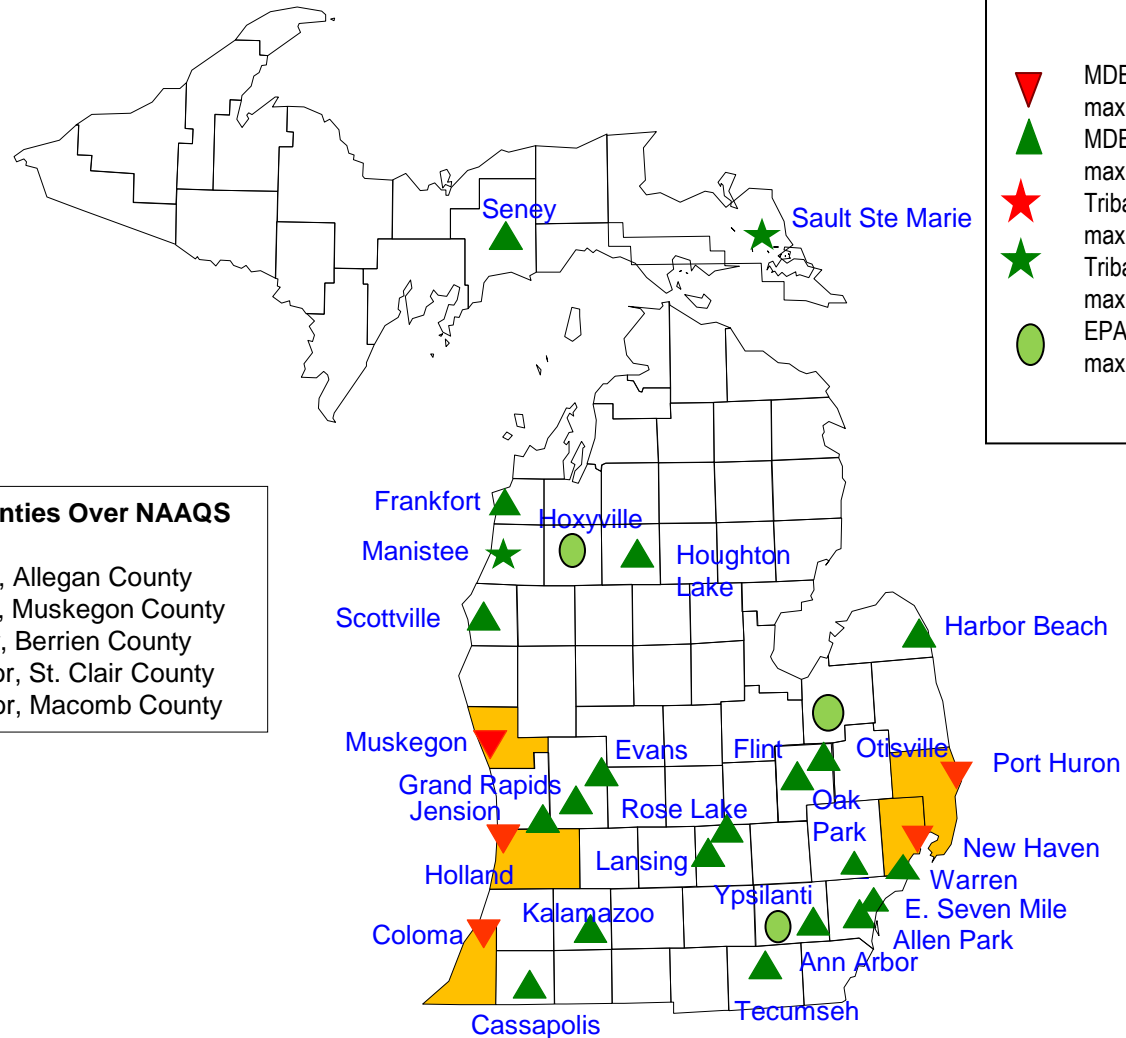
Seney

74

# Ozone Attainment

## New NAAQS of 0.070 ppm

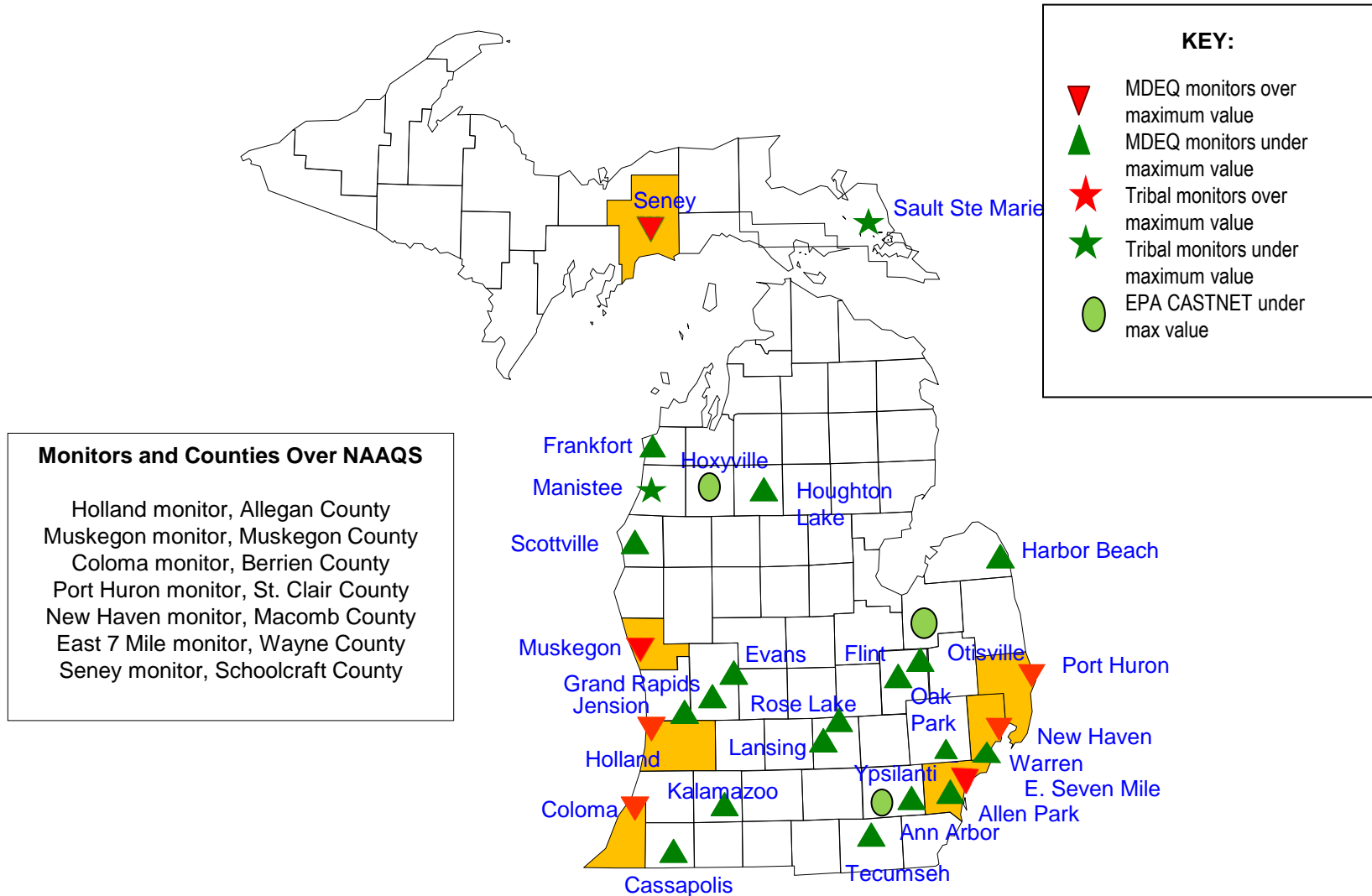
using years **2013-2015** data



# Preliminary Ozone Attainment

## New NAAQS of 0.070 ppm

using years 2014-2016 data



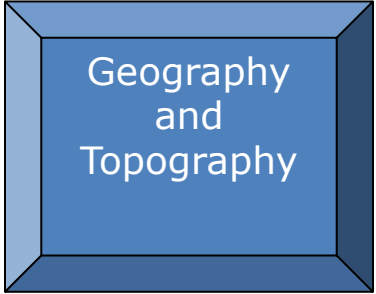
# Clean Air Act Section 107

- Nonattainment, any area that does not meet (or that contributes to ambient air quality in a nearby area that does not meet) the national primary or secondary ambient air quality for the pollutant.

# Five Factors



Air Quality  
Data



Geography  
and  
Topography



Meteorology  
Data

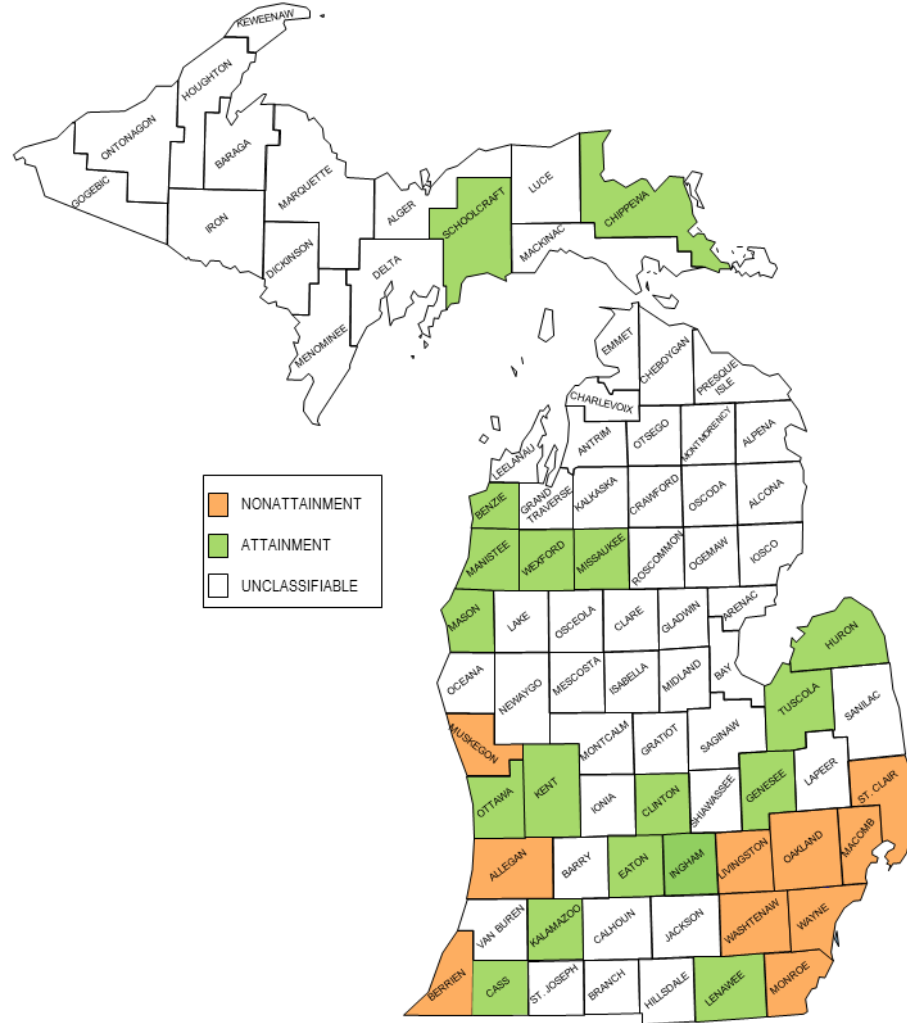


Emissions  
Data



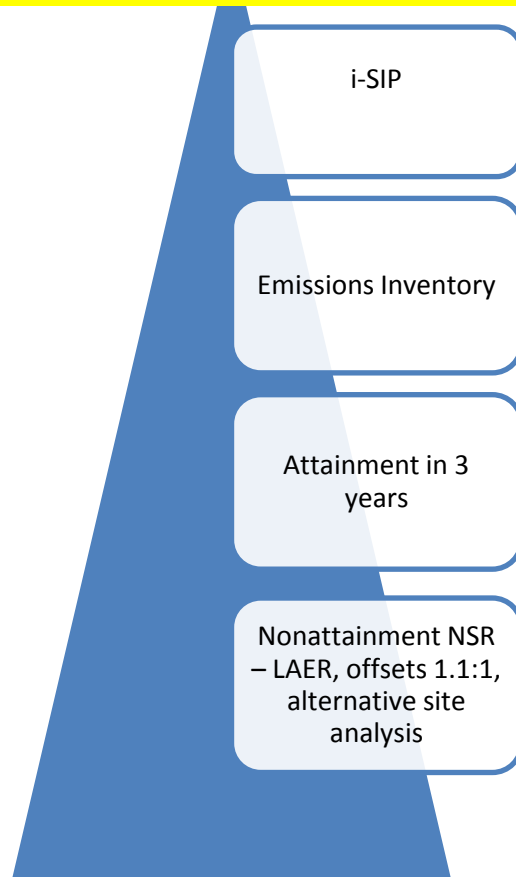
Jurisdictional  
Boundaries

# MDEQ Recommendation to EPA

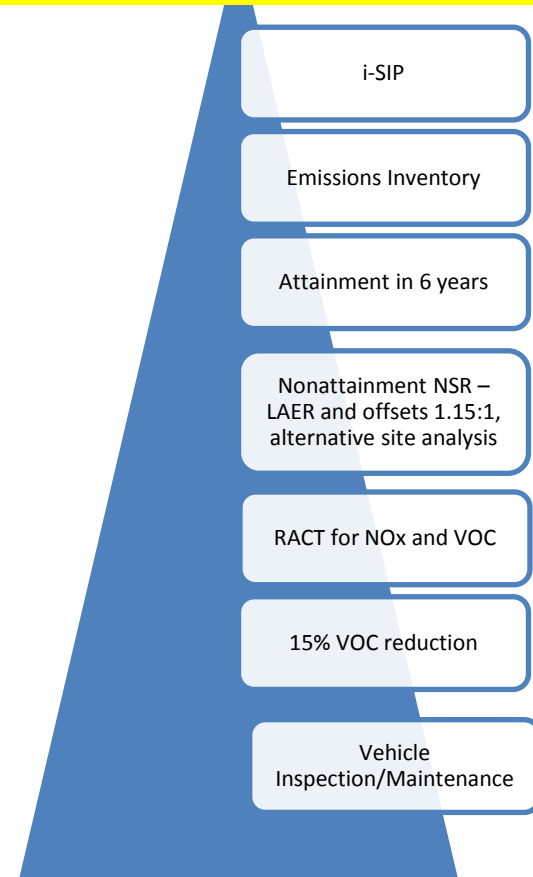


# Requirements for Nonattainment Areas

## Marginal Classification

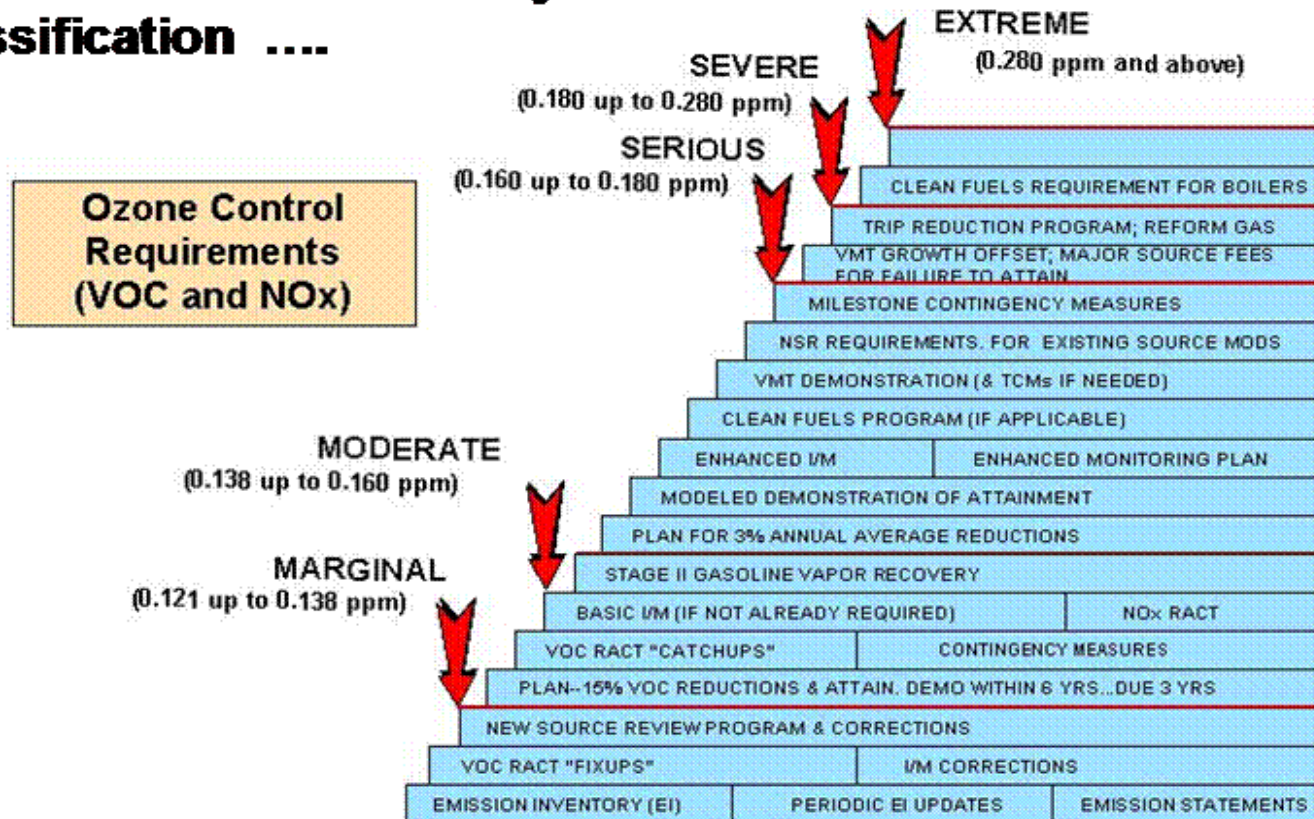


## Moderate Classification



# What are control measures that are placed in SIPs?

## •Mandated 1990 CAA controls by ozone classification ....





# Classification Table 1 CAA, §181

## adjusted for 70 std

*Percent Above Standard Method*

<i>Area Classification</i>	<i>Design Value for 1-hour ozone NAAQS</i>	<i>Attainment Date</i>	<i>% Standard Method</i>
<b>Marginal</b>	0.121 up to 0.138	3 yrs	0.071 up to 0.081
<b>Moderate</b>	0.138 up to 0.160	6 yrs	0.081 up to 0.093
<b>Serious</b>	0.0160 up to 0.180	9 yrs	0.093 up to 0.105
<b>Severe</b>	0.180 up to 0.280	15 yrs	0.105 up to 0.163
<b>Extreme</b>	0.280 and above	20 yrs	0.163 and above

## Status of Transport Rule Efforts

- Status of the Cross-State Air Pollution Rule (CSAPR)
  - EPA began implementation of this rule on January 1, 2015. It addresses interstate transport obligations for the 1997 ozone, 1997 PM<sub>2.5</sub>, and 2006 PM<sub>2.5</sub> NAAQS
    - On July 28, 2015, the D.C. Circuit issued its opinion on the remaining issues raised with respect to CSAPR. While the rule was largely upheld, the budgets for some states were remanded.
- On September 7, 2016, EPA finalized an update to the CSAPR ozone season program by addressing the CSAPR Update
  - This rule addresses interstate transport of ozone pollution with respect to the 2008 ozone NAAQS
  - In 2017, this rule will reduce summertime emissions of NO<sub>x</sub> from power plants in 22 states in the eastern half of the U.S.
  - The final rule reflects stakeholder input received during the public comment process and also responds to the July 2015 remand of certain CSAPR budgets by the U.S. Court of Appeals for the D.C. Circuit.
  - Additional information at <http://www.epa.gov/airtransport/>
- EPA is planning next steps to address interstate ozone transport with respect to the 2015 ozone NAAQS and considering any remaining interstate transport obligation for the 2008 ozone NAAQS
  - EPA plans to share modeling in the fall of 2016 to help inform SIP development for the 2015 ozone NAAQS
  - EPA is committed to additional outreach efforts with states and other stakeholders regarding next steps to address interstate ozone pollution

